Service Manual

POS60-5B-C1G
POS60-2B-C1G
POS60-8B-C1G

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1.

Before You Start

1. Please unplug the power cable before you start to work.

2. Please read and follow the instructions in this document carefully. Failure to follow these instructions could damage your device and void the warranty.

1.1. Tools Suggested

All procedures in this document require the following tools:

#0 Phillips screwdriver (magnetized suggested)

#1 Phillips screwdriver (magnetized suggested)

1.5 mm hexagon socket spanner (magnetized suggested)

needlenose pliers

Soldering iron

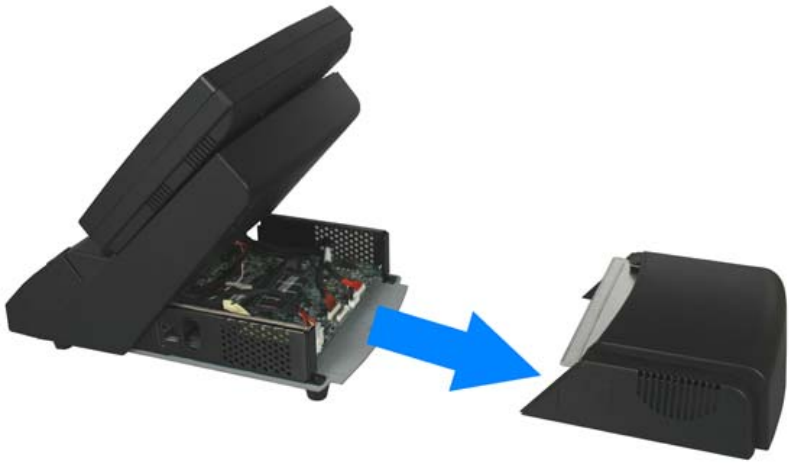
2.

Opening the Device

2.1. Remove Covers

1. Loosen the three tool-free screws anticlockwise on the bottom of the device.

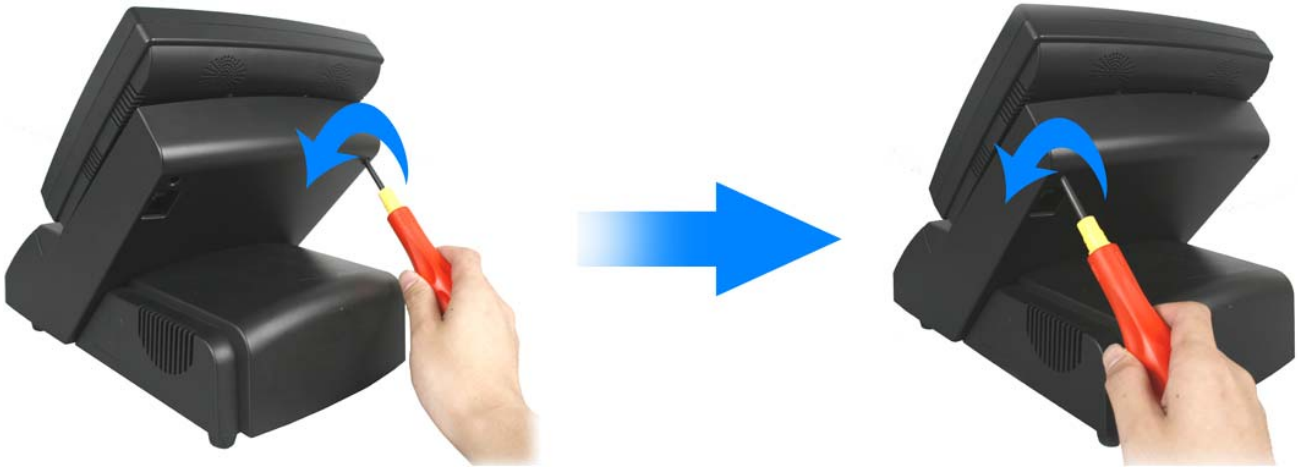
2. Remove the back cover from the device by pulling back.



3. Remove the front covert assembly, beware that the connected keyboard cable.

3. Unplug the keyboard cable; put the front covert assembly in the proper place.

4. Loosen and remove two screws on the middle cover by #1 Phillips screwdriver.



5. Pull the middle cover in the direction as shown below.

6. Bend the middle cover softly in the direction as shown below to remove it from the device.

7. Unplug the SCSI connector and the phone jack of the speaker.

2.2. Remove LCD Panel Assembly

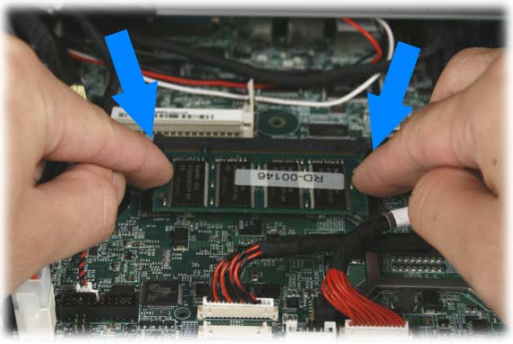
1. Loosen and remove four screws by #1 Phillips screwdriver as shown below

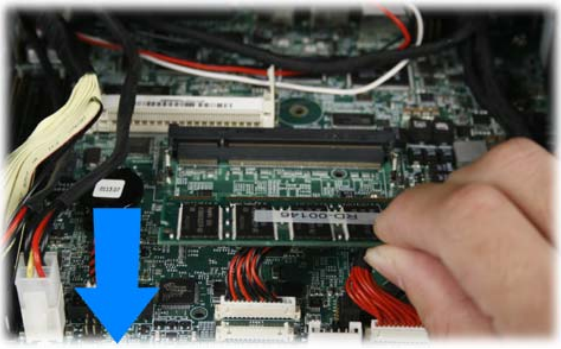
2. Remove the LCD panel assembly from the device.

3.

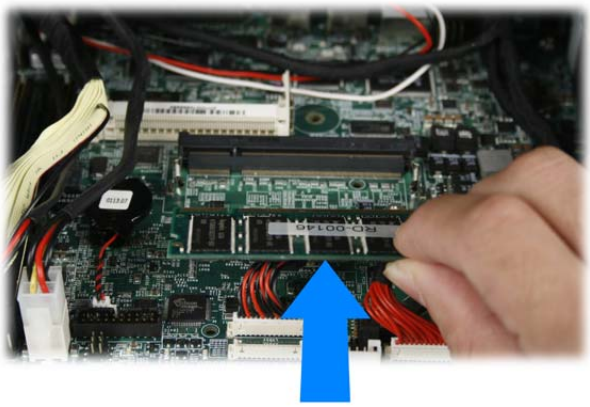
RAM Replacement

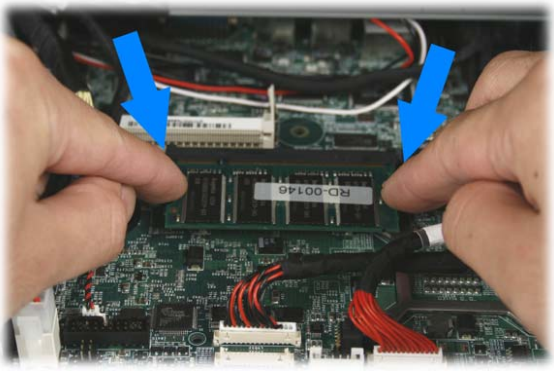
1. Open the tow ejectors on the slot by pushing them, and remove the RAM from the slot.





2. Align and insert the new RAM in the slot and push both ends of the RAM down until the ejectors snap into place.





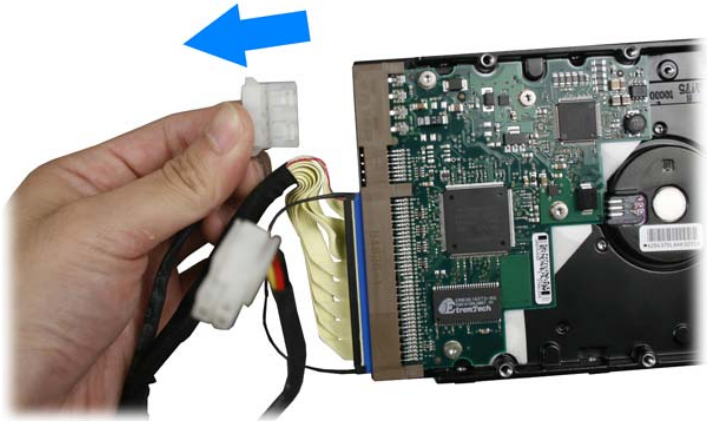
4.

HDD Replacement

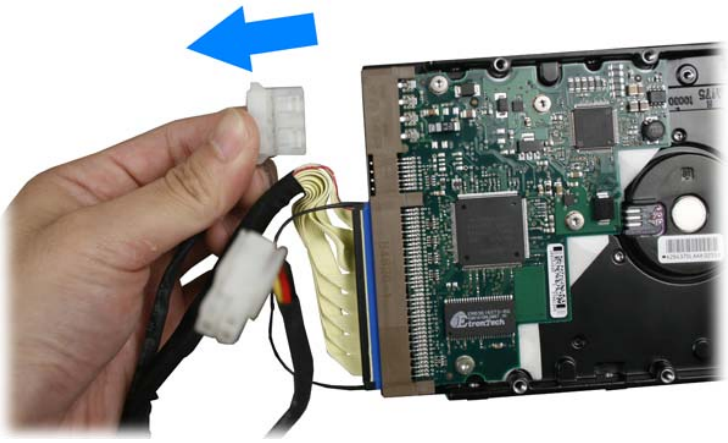
1. Loosen and remove the four tool-free screws fixing HDD as show below.

2. Remove the HDD from the device as shown below.

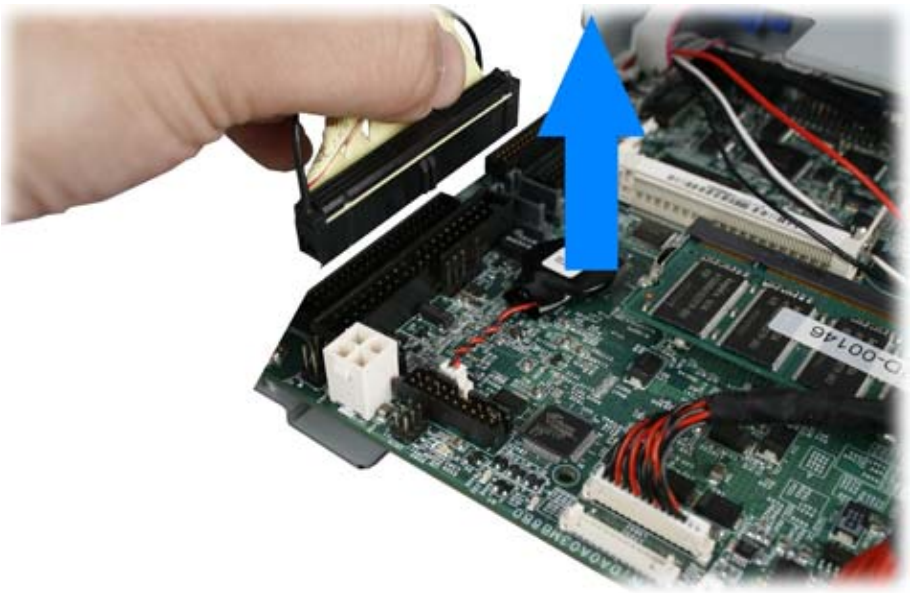
3. Unplug the IDE cable from the HDD.



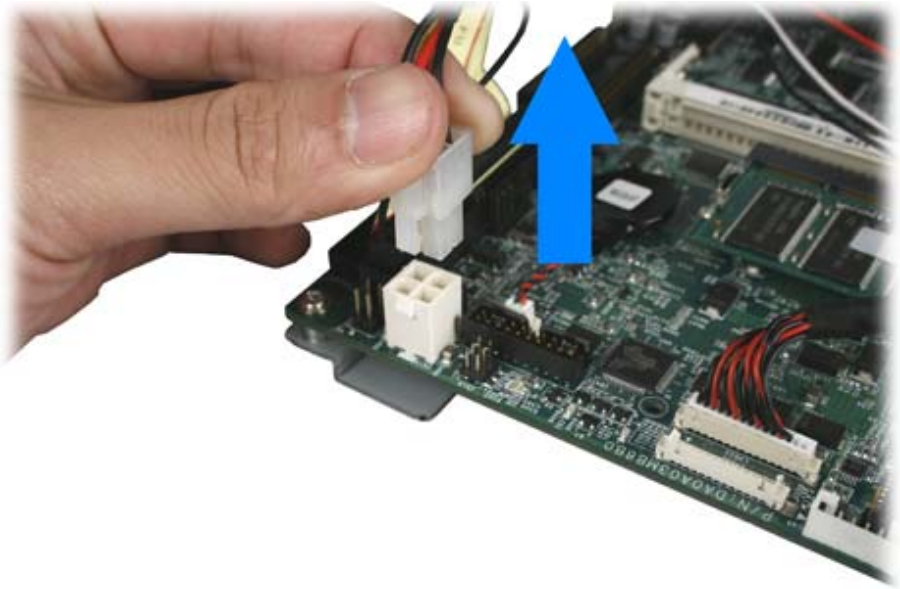
4. Unplug the power cable from the HDD.



5. Unplug the IDE cable from the IDE connector of the mainboard.



6. Unplug the power cable from the power connector of the mainboard.



5. Install the new HDD in the reverse procedure from **Step 6** to **Step 1**.

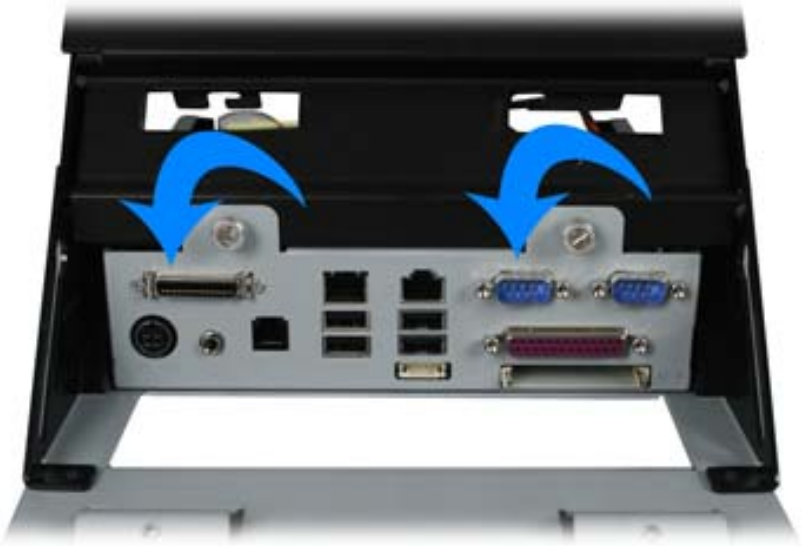
5.

Mainboard and Component Replacement

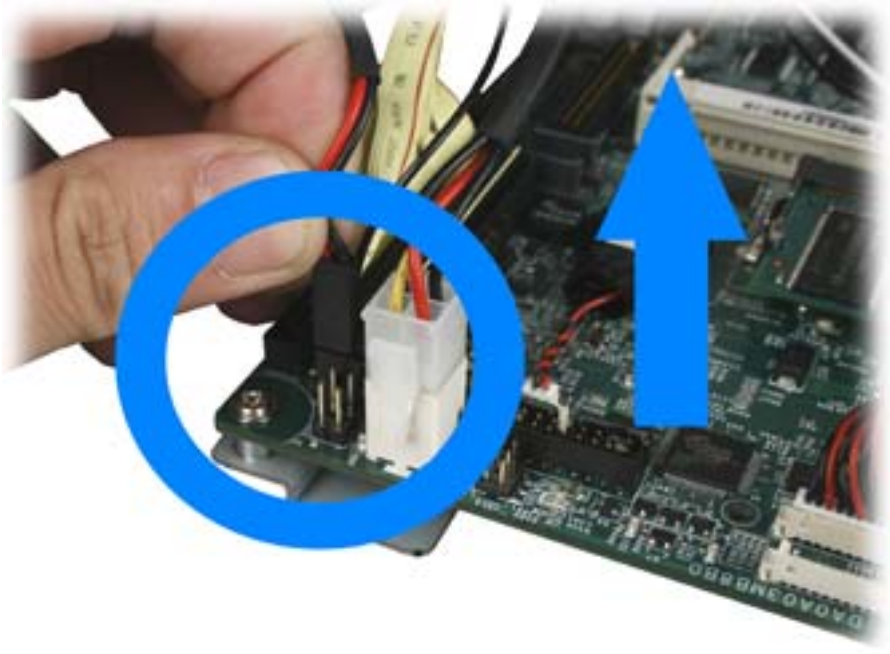
5.1. How to dissemble the mainboard from the device

1. Follow procedures described in previous sections to remove covers and HDD.

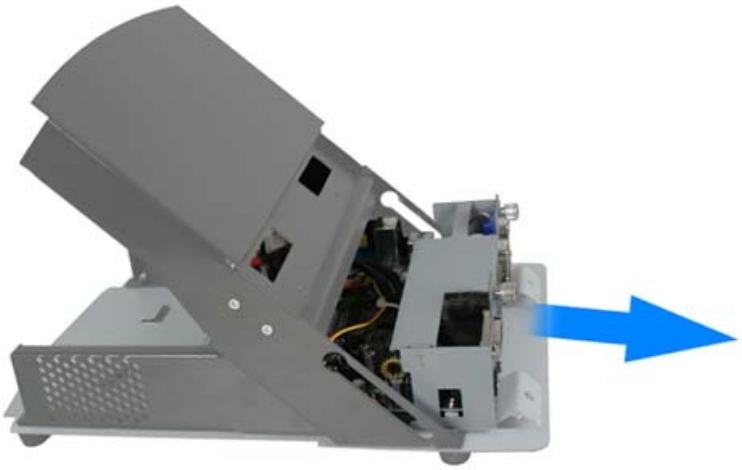
2. Loosen and remove the two tool-free screws on the I/O panel as shown below.



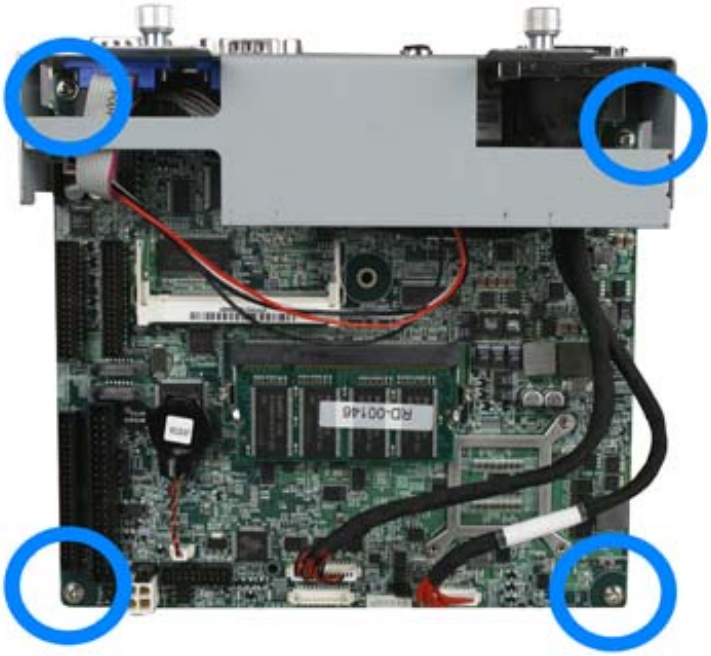
3. Unplug the power switch cable from the mainboard.



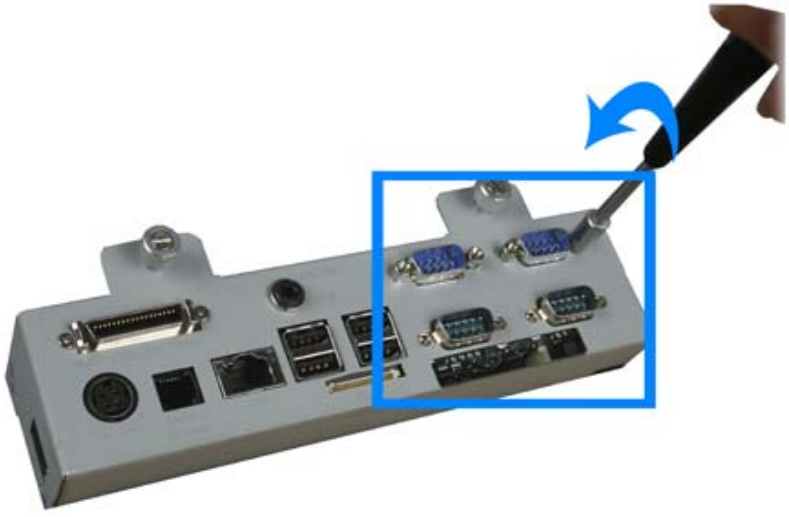
4. Draw out the base chassis from the device.



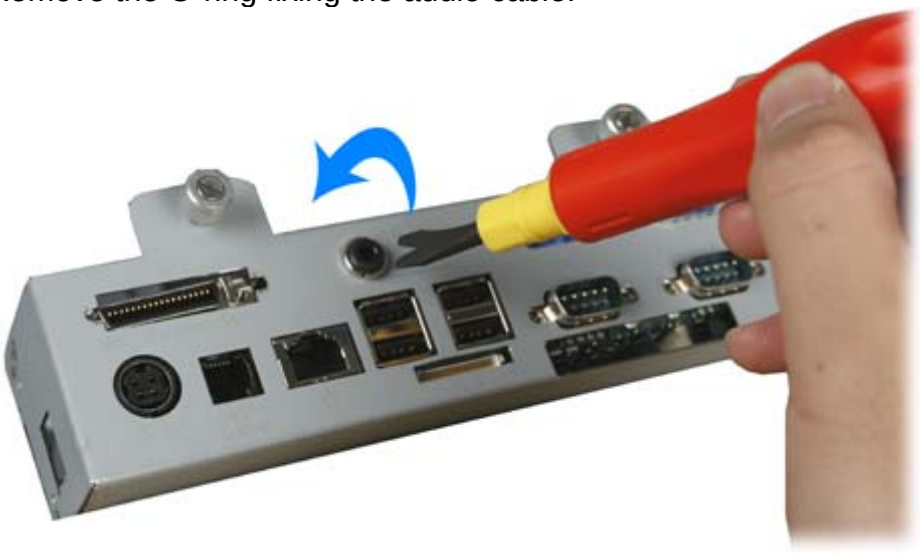
5. Loosen and remove the four screws in blue circle #1 Phillips by screwdriver.



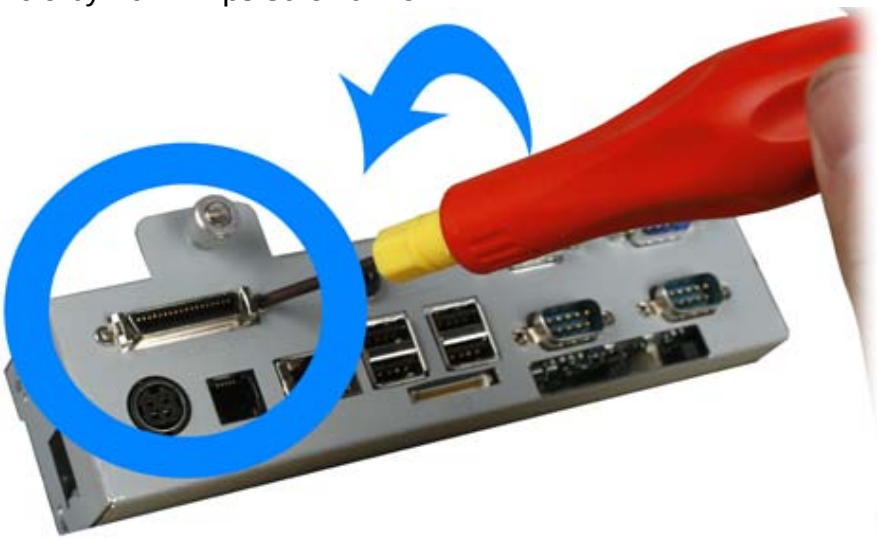
5. Loosen and remove the six hexagonal bolts fixing COM ports and the parallel port in the blue rectangle by hexagon socket spanner.



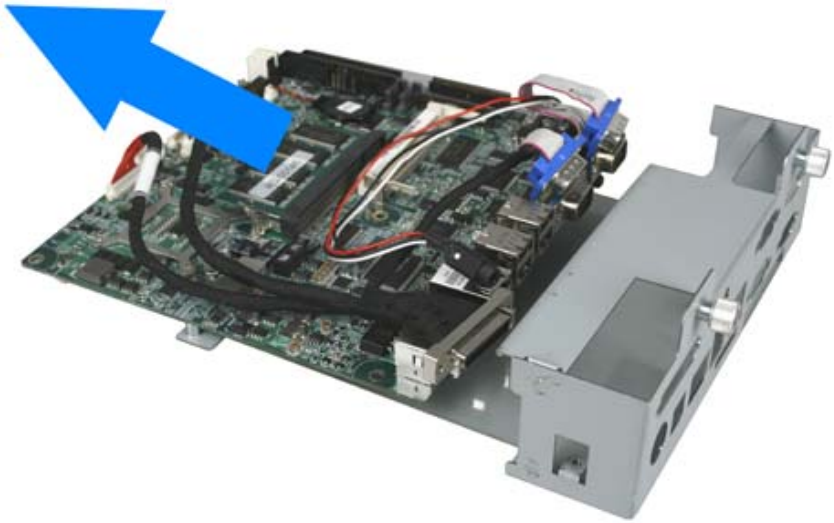
6. Remove the O-ring fixing the audio cable.



7. Loosen and remove the two screws fixing SCSI connector in the blue circle by #0 Phillips screwdriver.

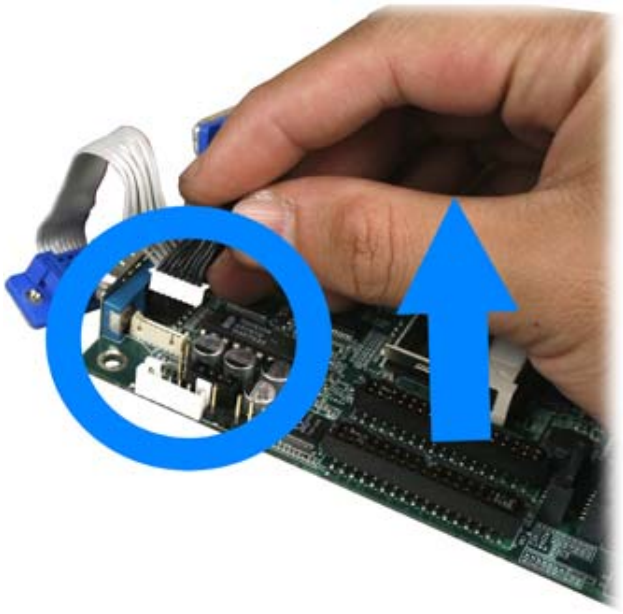


8. Remove the mainboard from the base chassis.

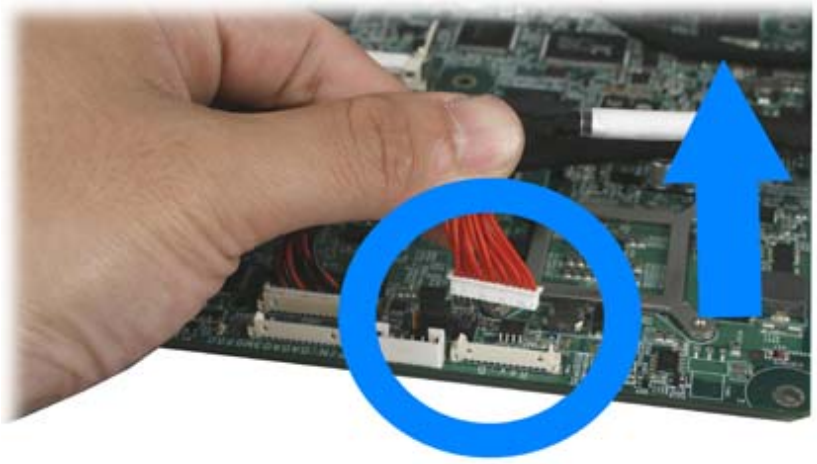


5.2. Unplug SCSI Cable

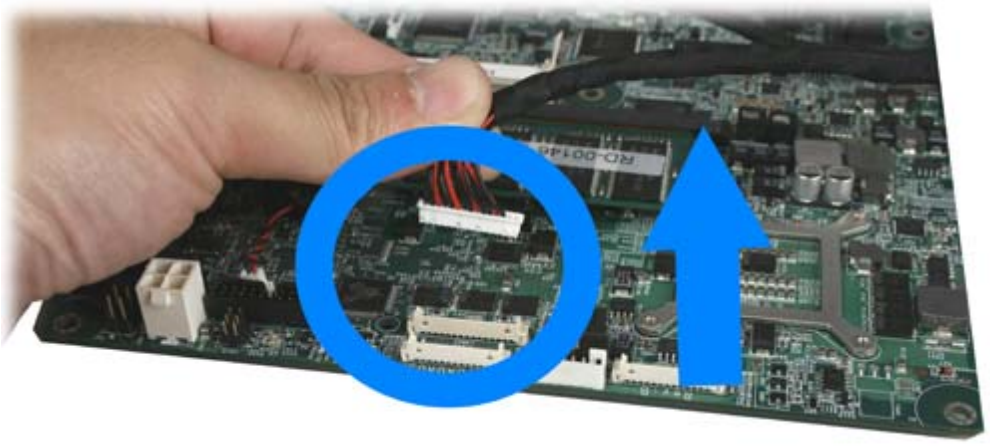
1. Unplug 8-pin female connector of SCSI cable from the male connector on the mainboard behind the USB port.



2. Unplug 13-pin female connector of SCSI cable from the male connector on the mainboard next to the HDD power connector.

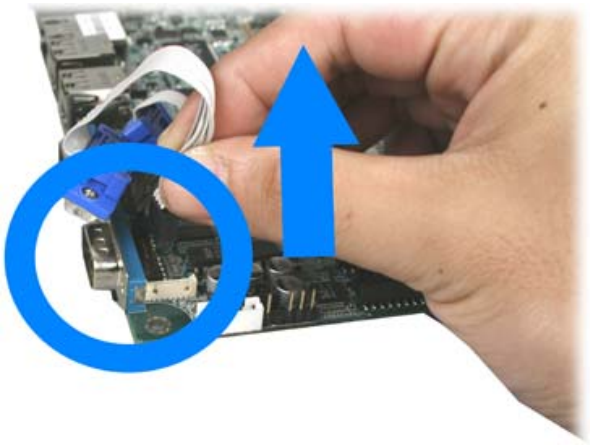


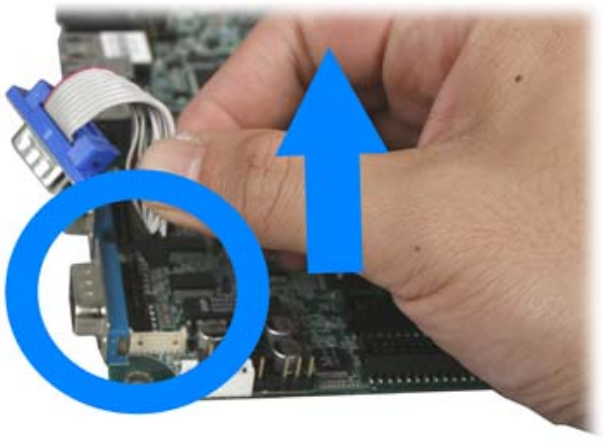
3. Unplug 15-pin female connector of SCSI cable from the male connector on the mainboard next to the IDE socket.



5.3. Unplug COM Port

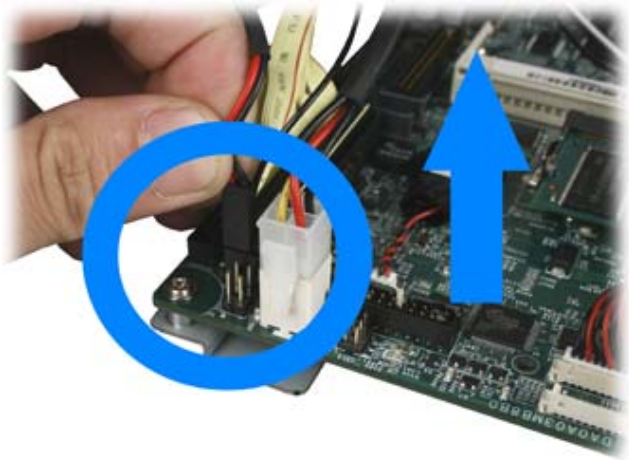
1. Unplug two COM port cables from the male connector on the mainboard behind the purple parallel port.



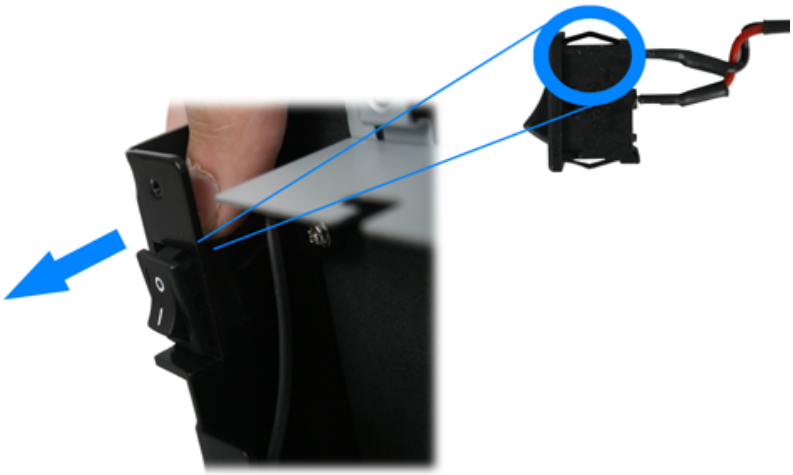


5.4. Power Switch Dissemble

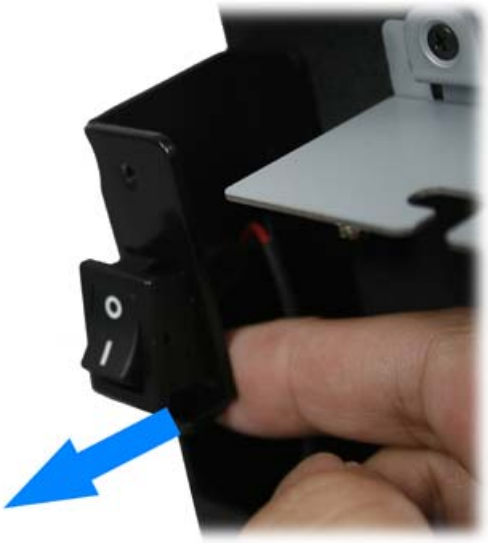
1. Unplug the power switch cable from the mainboard.



2. Press and holding the clip of the power switch, and push in the direction as shown below.



3. Push the power switch out of the chassis.



6.

Front Cover Assembly

6.1. iButton Module

1. Unplug the iButton cable from the iButton board.

2. Use the needlenose pliers to loosen the first hexagonal bolt as shown below.

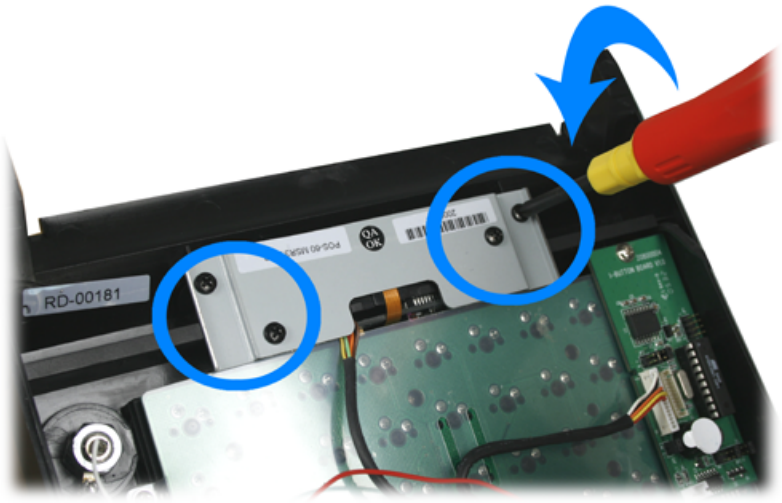
3. Use the needlenose pliers to loosen the second hexagonal bolt as shown below.

4. Use the soldering iron to melt down the solder joint in the blue circle. Install a new **iButton** in reverse procedure from **Step 4** to **Step 1.**

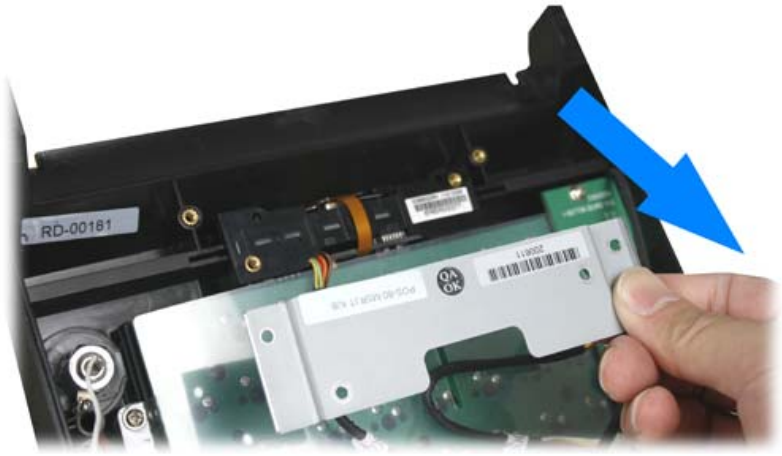
6.2. MSR Disassemble

1. Unplug the MSR cable from the connector on the iButton board.

2. Loosen and remove the four screws in blue circles as shown below by #1 Phillips screwdriver.



3. Remove the metal plate as shown below.



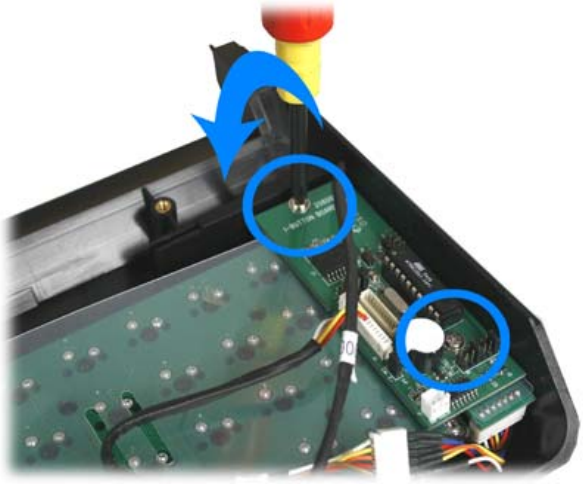
3. Remove the MSR assembly as show below.

Install a new **MSR** in reverse procedure from **Step 3** to **Step 1.**

6.3. iButton Board Disassemble

1. Unplug the keyboard cable from the connector on the iButton board.

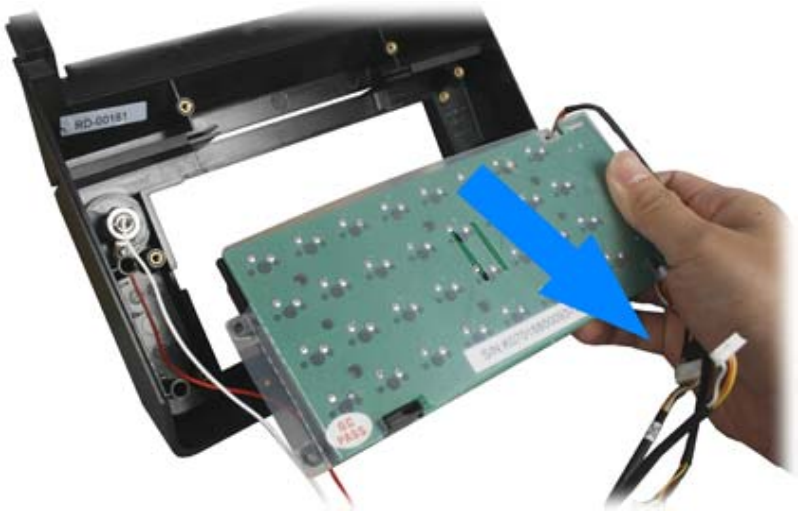
2. Loosen and remove the two screws in blue circles by as shown below by #1 Phillips screwdriver.



6.4. Keyboard Disassemble

1. Loosen and remove the four screws in blue circles as shown below by #1 Phillips screwdriver.

2. Remove the keyboard from the front cover.
   Install a new **Keyboard** in reverse procedure from **Step 2** to **Step 1.**



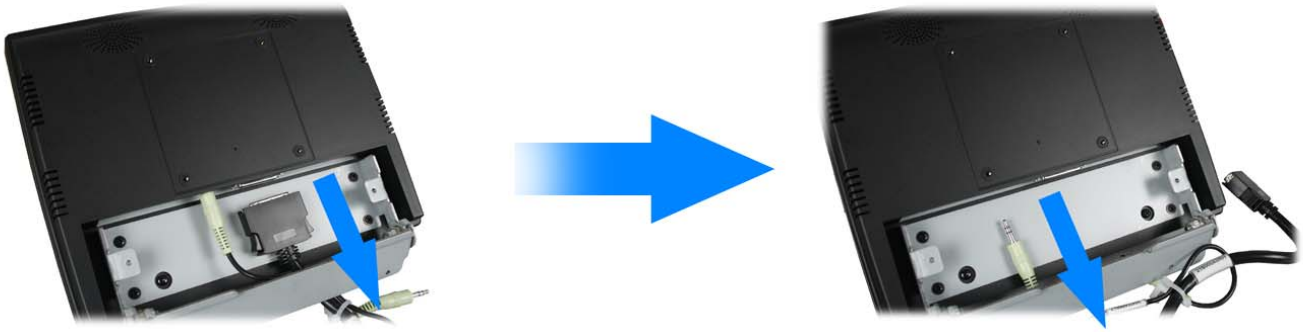
7.

LCD Panel Assembly

1. Loosen and remove the two screws in blue circles as shown below by #1 Phillips screwdriver.

2. Remove the plastic panel.

3. Unplug the SCSI connector and the phone jack.



4. Loosen and remove the four screws in blue circles as shown below by #1 Phillips screwdriver.

5. Remove the metal stand from the LCD assembly.

6. Loosen and remove the two screws in blue circles as shown below by #1 Phillips screwdriver.

7. Remove the rear panel from the LCD assembly.

8. Loosen and remove the four screws in blue circles as shown below by #1 Phillips screwdriver.

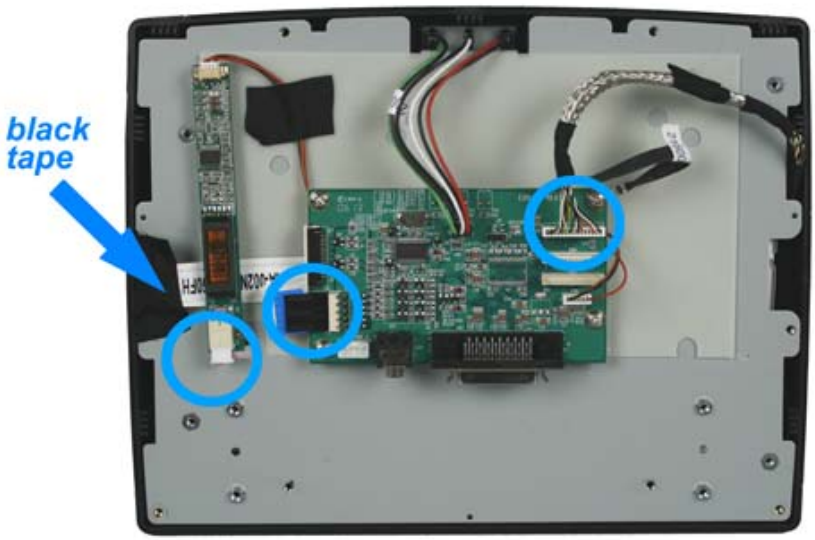
9. Loosen and remove the two screws fixing the SCSI connector in blue

circles as shown below by #1 Phillips screwdriver.

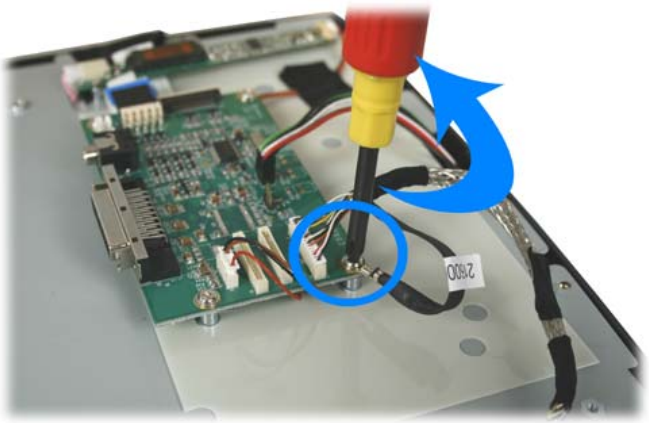
10. Remove the metal panel from the LCD assembly as show below.

11. Unplug the speaker cable as shown below

12. Loosen and remove the three connectors in blue circle and the black tape as shone below.



13. Loosen and remove the screw in blue circle as shone below by #1 Phillips screwdriver.



14. Remove the LCD inverter assembly as shown below.

15. Remove the LCD panel as shown below.
Install the new LCD and re-assemble the LCD assembly in the reverse procedure from **Step 15** to **Step 1**.

8.

Jumper Setting

I-Button	P. Keyboard	MSR	JP1	JP2	JP3	JP4	JP5	P.KB JP1, JP2
KB	X	X	X	3-4, 9-10	1-2, 5-6	OFF	OFF	
RS232	X	X	1-8	1-2, 7-8	OFF	ON	OFF	
KB	P. Keyboard	X	X	3-4, 9-10	1-2, 5-6	OFF	OFF	OFF
KB	P. Keyboard	KB	X	5-6, 11-12	1-2, 5-6	OFF	OFF	OFF

JP1: Setting CPU Type

JP1	DESCRIPTION
1-2	P4/ Celeron 2.0G
2-3	Mobile Celeron 1.2G

JP2: Power-in Type Selection

JP2	DESCRIPTION
1-2,3-4,5-6,7-8,9-10,11-12, 13-14,15-16,17-18,19-20	12V Jack-In
Open	**ATX-Power**

JP4:COM3 Jumper Selection

JP4	DESCRIPTION
1-3,2-4	Normal Operation

JP5:VGA 12V Jumper Selection

JP5	DESCRIPTION
1-3,2-4	Normal Operation
1-2,3-4	Use 12V

JP6:FSB Frequency Jumper Selection

JP6	DESCRIPTION
1-2,3-4	FSB 400
Open	FSB 533

JP7:COM4 422/485 Jumper Selection

JP7	DESCRIPTION
1-2	422
2-3	485

JP8: Clear CMOS Setup

JP8	DESCRIPTION
1-2	Normal Operation
2-3	Clear CMOS Setup

JP9: CF card setup

JP9	DESCRIPTION
Close	Master
Open	Slave

JP10: LCD voltage setup

JP10	DESCRIPTION
1-2	3.3V
3-4	5V

JP11: K/B Use Selection

JP11	DESCRIPTION
2-3,4-5	Normal Operation
Open	Use for JP11

JP12: COM Port RI and Voltage Selection

JP12	DESCRIPTION
5-6,11-12,17-18	Use for RI
3-4,9-10,15-16	5V
1-2,7-8,13-14	12V

JP13:COM4 RS232 or 422/485 Jumper Selection

JP13	DESCRIPTION
1-2	RS232
2-3	422/485

Others: Cash Drawer Pin Assignment

Pin	Assignment
1	GND
2	DOUT
3	DIN
4	12V
5	No Connected
6	GND